## FIG. 1A

T 77 . O T T			
	BIO-DEGRADABLE	COST	OTHER COMMENTS
CHLORINE DIOXIDE	HIGHLY BIO-	MODERATE	DOES NOT FORM
	DEGRADABLE		CHLORINATED BY- PRODUCTS
MUICOS	MODERATE FOR BLEACH	TOW	STABILITY PROBLEMS'
HYPOCHLORITE/	ITSELF. LOW FOR		FORMS CHLORINATED BY-
CALCIUM HYPOCHI ORITE	CHLORINATED BY-		PRODUCTS
GLUTERALDEHYDE	MODERATELY HIGH AT	MODERATE TO	ODORS
	USE CONCENTRATIONS	MODERATELY	
		HIGH	
HYDROGEN	HIGHLY BIO-	RELATIVELY LOW	STABILITY, STORAGE, AND
PEROXIDE	DEGRADABLE		HANDLING
DRY CHLORINE	LOW TO MODERATE	RELATIVELY LOW	DUSTING, HANDLING
COMPOUNDS			ISSUES
OZONE	HIGHLY BIO-	VERY HIGH IN ALL	EQUIPMENT
	DEGRADABLE	REGARDS	EXPENSIVE
			MAINTENANCE
			INTENSIVE
OUATERNARY	POOR FOR MOST	MODERATELY	FOAMS INACTIVATED BY
AMMONIA	FORMULATIONS	HIGH	SOLIDS, SYNERGISTIC
COMPOUND			WITH C102
PERACETIC ACID	HIGHLY BIO-	MODERATLEY	SAFETY AND HANDLING
	DEGRADABLE	HIGH	

## FIG. 1B

	ntr	DIOLIT M	TOVICITY	COPPOSITYENIESS
	FII	DIUFILIM	IOMICIT I	ATTO TO A PLEASE
CHLORINE DIOXIDE	NEUTRAL	VERY GOOD	NEGLIGABLE AT USE CONCENTRATIONS	NEGLIGABLE AT USE CONCENTRATIONS
SODIUM	ALKALINE	INEFFECTIVE	MAY PRODUCE	CORROSIVE TO Fe AND AI
HYPOCHLORITE/ CALCIUM			CHLORINATED BY- PRODUCTS	
HYPOCHLORITE				
GLUTERALDEHYDE	NEGLIGABLE	INEFFECTIVE	MAY CAUSE SEVERE SKIN IRRITATION	MAY CAUSE SEVERE SKIN IRRITATION IN
				SOIME INDIVIDUALS
HYDROGEN	NEUTRAL	INEFFECTIVE	MAY BE EXTREMELY	HIGH ON Fe, Al, and Zn
PEROXIDE			IRRITATING TO SKIN	
			AND TISSUES AT USE	
			CONCENTRATIONS	
DRY CHLORINE	MODERATELY INEFFECTIVE	INEFFECTIVE	MAY PRODUCE	CORROSIVE TO Fe and Al
COMPOUNDS	TO HIGH		CHLORINATED BY-	
			PRODUCTS	
OZONE	NEUTRAL	INEFFECTIVE	PROBABLY	CORROSIVE TO Fe and Al
			NEGLIGABLE AT USE	AT HIGHER
			CONCENTRATIONS	CONCENTRATIONS
OUATERNARY	ACID TO	INEFFECTIVE	SKIN AND LUNG	CAN BE CORROSIVE TO
AMMONIA	NEUTRAL		IRRITATION	Fe, Cu, AND BRASS
COMPOUND				
PERACETIC ACID	NEUTRAL TO	INEFFECTIVE	SEVERE SKIN	HIGH ON Fe, Al, and Zn
	ALKALINE		CALISE BUNDNESS	
			ממתאותאותת תמסעס	

## FIG. 1C

	EFFICACY	MICROBIAL RANGE	CONTACT TIME	CONCENTRATION
CHLORINE DIOXIDE	HIGH	BROAD SPECTRUM	SECONDS TO	0.1 PPM TO 5 PPM
		EFFECTIVE AGAINS	MINUTES	
		ALL ORGANISMS		
SODIUM	MODERATE	INEFFECTIVE	MINUTES TO	5PPM TO 100 PPM
HYPOCHLORITE/		AGAINST MANY	HOURS	
CALCIUM		ORGANISMS		
GLUTERALDEHYDE	MODERATE	SPOROCIDAL	30 MINUTES	50 PPM TO 100 PPM
	TO HIGH		TO SEVERAL	
			HOURS	
HYDROGEN	LOW	REQUIRES HIGH	15 MINUTES	500 PPM TO 700 PPM
PEROXIDE		CONCENTRATIONS,	TO SEVERAL	
		TO ACHIEVE KILL	HOURS	
DRY CHLORINE	MODERATE	INEFFECTIVE	30 MINUTES	5PPM TO 100 PPM
COMPOUNDS		AGAINST MANY	TO SEVERAL	
		ORGANISMS	HOURS	
OZONE	HIGH	BROAD SPECTRUM	SECONDS TO	0.1 PPM TO 10 PPM
		EFFECTIVE AGAINST	MINUTES	
		ALL ORGANISMS		
QUATERNARY	MODERATE	INEFFECTIVE	MINUTES TO	30 PPM TO 100 PPM
AMMONIA	TO HIGH	AGAINST MANY	SEVERAL	
COMPOUND		ORGANISMS	HOURS	
PERACETIC ACID	MODERATE	INEFFECTIVE	30 MINUTES	5 PPM TO 100 PPM
		AGAINST MANY	TO SEVERAL	
		ORGANISMS	HOURS	

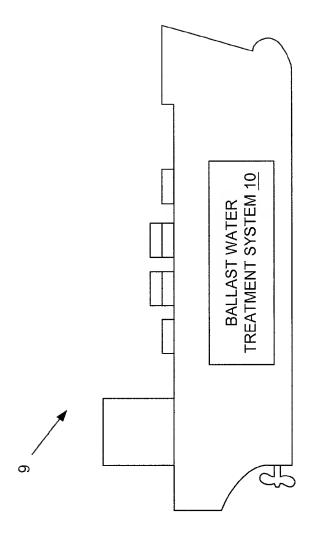


FIG. 2A

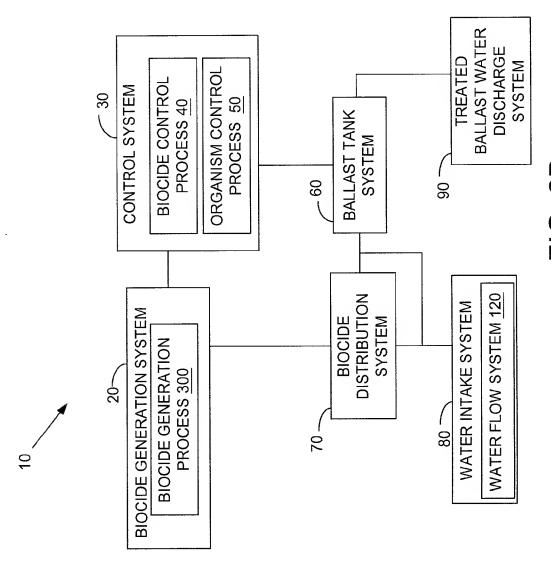


FIG. 2B

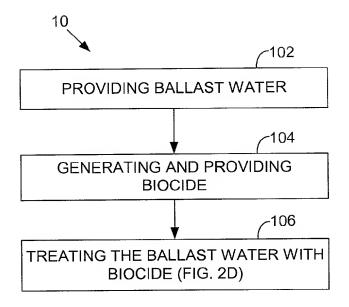


FIG. 2C

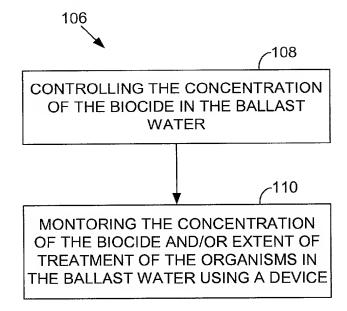
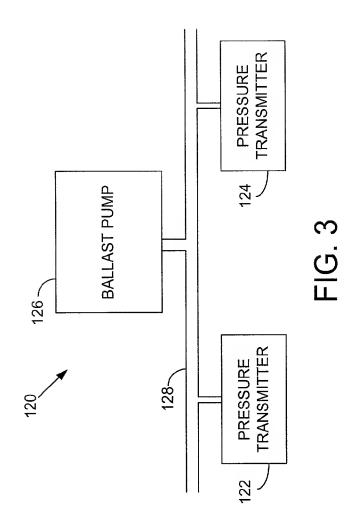


FIG. 2D



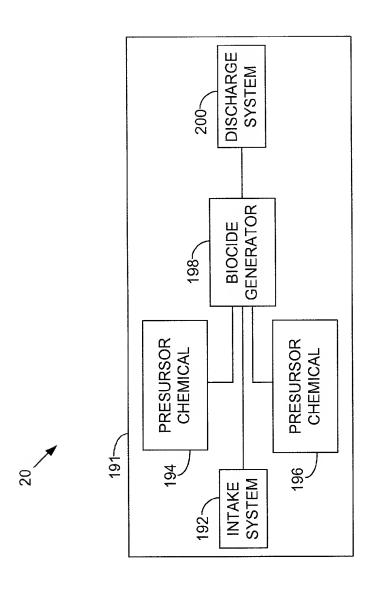


FIG. 4

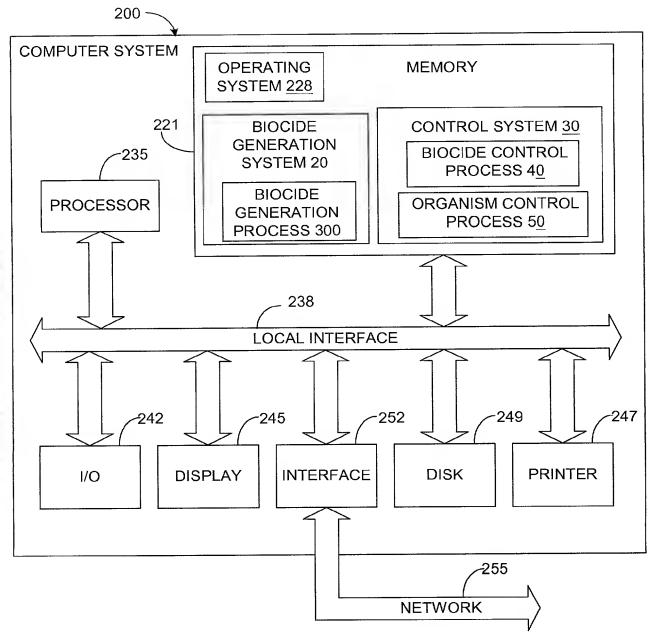
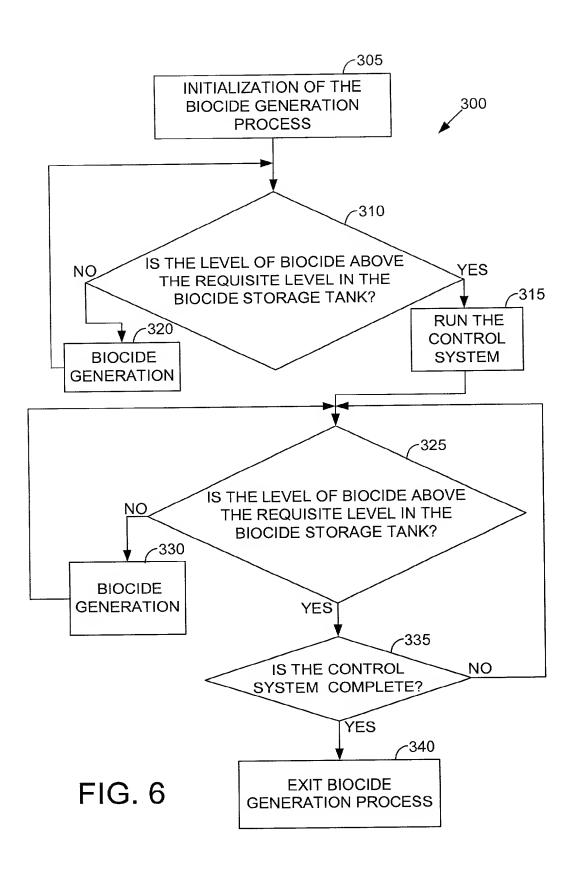


FIG. 5



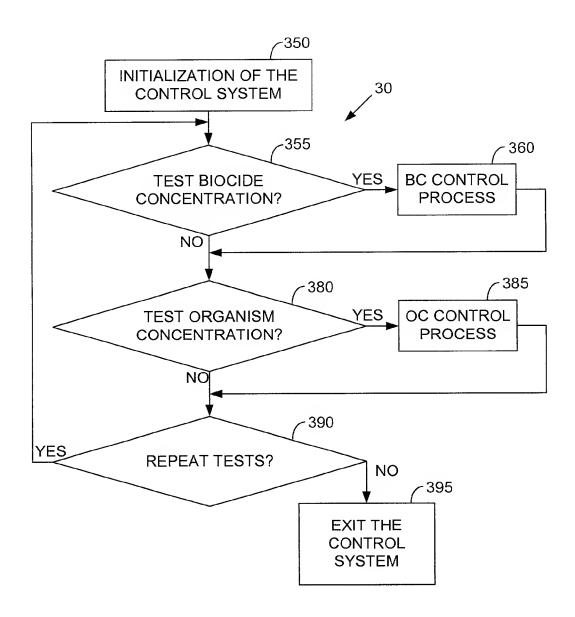


FIG. 7

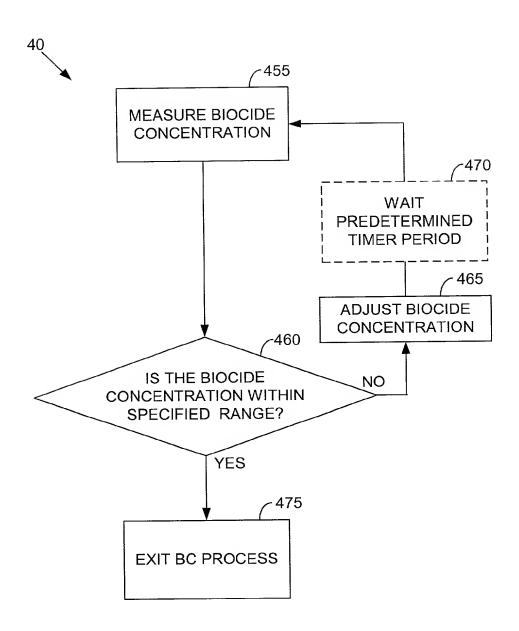


FIG. 8

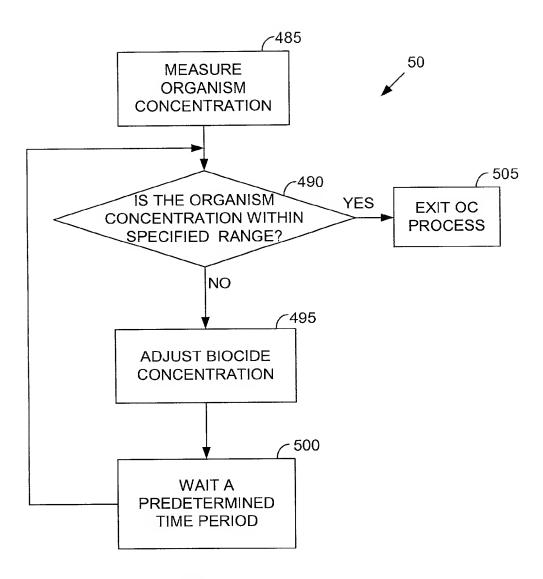


FIG. 9